

UAI B10: Copper Distribution Cable, \$/Foot ¹		
Cable Size	Default	BST-TN Specific ²
6	\$ 0.63	\$ 0.94
12	0.76	1.05
25	1.19	1.30
50	1.63	1.83
100	2.50	2.65
200	4.25	4.54
400	6.00	7.77
600	7.75	11.68
900	10.00	17.23
1200	12.00	23.07
1800	16.00	34.36
2400	20.00	46.04

¹ For comparable line sizes, UAI B56, copper feeder cable cost, would reflect the same values as those listed in this chart.

² BST-TN-specific values include terminal and splicing, whereas Default values do not. Accordingly, as noted in Exhibit 4, the BST-TN-specific value for cost of terminal splicing, UAI B7, is \$0.

For user-adjustable input B-10, we obtained the cost per foot of copper distribution cable, which reflects the current cost of such cable to BellSouth-Tennessee, including the current cost to BellSouth-Tennessee to engineer, install and deliver that type of cable. This data was obtained from specific accounting records that reflect the installation of all gauges of copper distribution cable over a full annual period. Reasonable allocations are then applied to determine the cost to the particular gauge of cable, 26-gauge cable, that is used to derive the value for this input. The information that has been recorded also includes the cost of terminal and splicing, which in HAI

R5.0a is included as a separate input. Since the specific values derived for the distribution cable include these costs, it would be appropriate to set the input values for terminal and splicing (input B-7) to zero as we have recommended. This approach, in which a couple of inputs have needed to be combined in order to use territory-specific information, occurs a few times and is taken care of by aggregating certain inputs and setting others to zero. The end result is the current cost of the operation for the territory, as has been requested by the Commission.

On the other hand, the default values selected by AT&T/MCI are claimed to be based upon the "opinion" of outside plant engineers. No backup data demonstrating the support for the default values associated with input B-10 has been provided, and no reference to what "publicly available information" would support this input has been provided. As stated before, it is this kind of "opinion," without any validation, that has been provided for the overwhelming majority of the inputs used into the default values recommended by AT&T/MCI.

Not only is the "opinion" for the input not validated or supported by "publicly available data" but significant changes have been made to the user-adjustable input database from earlier versions (HM Version 3.1) to the current HAI R5.0a without any support or validation. The following chart shows the change made by AT&T/MCI from one user-adjustable input database to the next, changing the cable gauge for certain cable sizes but providing no backup or validation for the costs provided.

Changes in UAI Databases For UAI B10 HM R3.1 to HAI R5.0a		
<u>Cable Size</u>	<u>HM R3.1 Default</u>	<u>HM R4.0 and HAI R5.0a Default</u>
6	\$ 0.63	\$ 0.63
12	0.76	0.76
25	1.19	1.19
50	1.63	1.63
100	2.50	2.50
200	4.25	4.25
400	7.75	6.00*
600	11.25	7.75*
900	16.50	10.00*
1200	21.75	12.00*
1800	32.25	16.00*
2400	42.75	20.00*

• Highlights changed values caused by a change in the gauge of cable assumed for these cable sizes.

The alternative values that we recommend for input B-10 are not only based on cost data that reflects the current conditions of the territory of BellSouth, they also reflect costs that can be expected to occur in the future. There is every indication that the current cost of copper distribution cable, including the cost to deliver, engineer and install it, is actually a conservative measure of the cost of copper distribution cable in the future. It is not reasonable to expect that the installed cost of copper distribution cable will go down.

In addition to our development of costs to ensure that they are forward-looking, we also ensured that they were not reflective of any embedded costs. Using input B-10 referred to before as an example, copper distribution cable has been installed over a number of years and is recorded on the BellSouth books as an investment. Therefore, were it necessary to obtain the embedded investment dollar figure per foot of copper distribution cable, this would have been obtained by dividing the total investment in copper distribution cable recorded on BellSouth's books by the total length of copper distribution cable that had been installed over the years. Since HAI R5.0a requires a forward-looking and not an embedded cost per foot of copper distribution cable, we applied a different procedure to obtain the forward-looking cost. We began our analysis by considering 26-gauge copper distribution cable and obtained costs associated with the activity of installing this size of cable in 1995. This information is contained in the 1995 books and records of BellSouth in the specific field recording code associated with the installation of copper distribution cable. This data provided the 1995 costs associated with the installation of copper distribution cable and the length of cable that was installed for that year. We then derived the current (1995) cost per foot of purchasing and installing 26-gauge copper distribution cable for each of the cable sizes. This is precisely the information that is required for input B-10 in order to make it BellSouth-specific, forward-looking and not reflective of embedded costs.

VI. LACK OF INFORMATION BY DENSITY ZONE

In the Further Notice, the Commission tentatively concluded that installation costs for cable should vary based on terrain and line density and reached other tentative conclusions about the

cost of installing outside plant⁸. While the Commission has tentatively concluded that installation costs should vary based upon line density, we would point out at the outset, that much of the territory-specific information that we have developed does not lend itself to validation by line density. The inputs provided with the HAI Model, although set forth by line density, contain no validation concerning the accuracy of these density-specific inputs. Again, these density-specific variations are based solely upon "expert opinion."

In reviewing the results of running HAI R5.0a to compute the value of the required Universal Service Fund, we note that in almost every state the Universal Service Fund is determined generally in the lowest two or three density zones. In presenting our analysis of data in this proceeding, we have not segregated data by density zone, but rather, presented the specific calculation as being the same over each density zone. Since the lower density zones prove to be the high cost areas for all territories, the use of an average value in these high cost areas may tend to underestimate the determined values for the Universal Service Fund calculations since the specific costs in these lower density zones would be higher than the average.

⁸ See Further Notice, 12 FCC RCD at 18,541-18,544, paragraphs 60-69.

VII. COMMON INPUTS

It is also appropriate here to comment on the so-called common inputs that have been put forward by the Commission Staff as a method of analyzing the platform designs of the BCPM and HAI models. We note that a large number of these common inputs are the same as the default inputs suggested by the sponsors of the HAI Model. In some cases, the common inputs are actually below the default inputs recommended for the HAI Model and in the remaining cases they appear to be above the default inputs.

With regard to those common inputs that are the same as the default inputs recommended in the HAI Model, we have the following comments:

1. It has already been pointed out that many of the default inputs for the HAI Model are based solely upon "expert opinion," have no backup and cannot be validated by any data. To the extent that the common inputs rely upon the HAI Model default inputs, they would be subject to the same weakness - the input cannot be validated in any way.
2. The specific basis upon which the Commission is relying to create the common inputs has not been set forth clearly enough and, therefore, appropriate comment cannot be provided.
3. The common inputs appear to be the same for each state, which would lead to the conclusion that the Commission believes it is appropriate to use a composite rate for the entire nation rather than have rates differ by state or region to reflect actual regional cost differences. Our comments in a prior section indicate that an approach

on a composite national basis is prone to significant error because of significant differences that can be expected on a state-by-state or region-by-region basis.

For those common inputs that are actually below the HAI Model default inputs, we would urge great caution since our comments above indicate that the default values for the HAI Model on an objective basis are already extremely low. In addition, it has been noted that, as the model has gone through successive generations, the inputs have repeatedly been revised downward, without supporting evidence or computations, solely on the basis of "expert opinion" that is designed to produce a desired (lower) end result.

As we have stated before, we believe the approach that we recommend, of creating a territory-specific input based upon forward-looking costs and best engineering and technology available, is the appropriate way to craft the inputs. The data we have presented accomplishes this.

VIII. CONCLUSION

If the Commission determines that it wishes to establish Universal Service Support levels by applying HAI R5.0a, it should do so using values for the user-adjustable inputs that properly reflect the conditions of the territory of BellSouth. In addition, the values for the user-adjustable inputs should reflect costs and other conditions that are reasonably expected to occur in the future; *i.e.*, that are both forward-looking and reasonable. Only in that circumstance will the application of HAI R5.0a produce costs for purposes of determining Universal Service Support

that are both forward-looking and reasonable for application in this case. The values for the user-adjustable inputs that we have recommended meet that standard.

APPENDIX

Experience and Qualifications of Georgetown Consulting Group, Inc.

This report was prepared by:

Jamshed K. Madan - Principal, Georgetown Consulting Group, Inc.
Michael D. Dirmeier - Principal, Georgetown Consulting Group, Inc.
David C. Newton - Self-employed consulting telecommunications planning.

Jamshed K. Madan has testified on general regulatory policy, accounting, incentive regulation, alternative regulatory mechanisms, cost allocation and other regulatory issues in Alabama, Arkansas, Colorado, District of Columbia, Connecticut, Delaware, Georgia, Guam, Guyana, Kentucky, Louisiana, Maryland, Massachusetts, Minnesota, New Jersey, New Mexico, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Vermont, Virginia, the U.S. Virgin Islands and the U.S. Nuclear Regulatory Commission involving numerous regulatory proceedings. Prior to his association with Georgetown, Mr. Madan was a principal of Touche Ross & Co., an international public accounting firm, and held the position of National Director of Regulatory Consulting. Mr. Madan has approximately 25 years of regulatory experience. He holds a Bachelors degree in Electrical Engineering from MIT and a Masters degree from the Alfred P. Sloan School of Management of MIT.

Michael D. Dirmeier has prepared testimony and/or testified on accounting, incentive regulation, alternative regulatory mechanisms, and numerous other regulatory issues in Alabama, Arkansas, Colorado, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maine, Maryland, Mississippi, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, the U.S. Virgin Islands and before FERC and the Nuclear Regulatory Commission involving over 100 rate proceedings. Prior to Georgetown, Mr. Dirmeier also worked for Touche Ross & Co. where he had about 2 years of regulatory experience. In total, Mr. Dirmeier has approximately 20 years of regulatory experience. Mr. Dirmeier holds a BS degree from Texas A&M University, an MBA degree from the University of Chicago, and a Certificate in Management Accounting (CMA).

David C. Newton has spent 32 years in telecommunications network planning and design. Since 1991, Mr. Newton has served as a consulting telecommunications network engineer, advising clients and testifying in regulatory proceedings on a variety of network matters. Prior to his consulting work, Mr. Newton spent 27 years with the Southern New England Telephone Company, where he held numerous positions in network planning and network design. Mr. Newton received a BS degree in operation management from Quinnipiac College, and he holds an AS degree in electrical engineering from Hartford State Technical College.

ATTACHMENT 2

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554

In the Matter of)	
)	
Federal-State Joint Board on	)	CC Docket No. 96-45
Universal Service)	
)	
Forward-Looking Mechanism	)	CC Docket No. 97-160
for High Cost Support for)	
Non-Rural LECs	)	(DA 98-848)

EXHIBITS to

**POSITION AND RECOMMENDATION OF GEORGETOWN CONSULTING GROUP, INC.
REGARDING APPROPRIATE INPUTS FOR BELLSOUTH STATES
FOR USE IN HAI R5.0a**

Exhibit 1

Identification of Exhibits and Listing of Sensitive Input Groups

EXHIBIT 1

IDENTIFICATION OF EXHIBITS and LISTING of SENSITIVE INPUT GROUPS

EXHIBIT

- 1 Identification of Exhibits and Listing of Sensitive Input Groups
- 2 Values for User-Adjustable Inputs: Alternative Values Compared to HAI R5.0a Appendix B Default Values
- 3 Sensitive Input Group 1: NID and Drop
 - B1 NID Investment
 - B2 Drop Distance
 - B3 Drop Placement, Aerial and Buried
 - B4 Buried Drop Sharing Fraction
 - B8 Drop Cable Investment
- 4 Sensitive Input Group 2: Terminal and Splice
 - B7 Terminal and Splice Investment per Line
- 5 Sensitive Input Group 3: Distribution Investment
 - B10 Copper Distribution Cable Investment
 - B11 Riser Cable Investment
 - B13 Buried Distribution Cable Sheath Multiplier
 - B14 Conduit Material Investment per Foot
 - B15 Spare Tubes per Route
 - B16 Regional Labor Adjustment Factor
 - B38 Serving Area Interface (SAI) Investment
 - B197 Underground Excavation
 - B198 Underground Restoration
 - B199 Buried Excavation
 - B200 Buried Installation and Restoration
- 6 Sensitive Input Group 4: Copper Feeder Investment
 - B56 Copper Feeder Cable Investment

EXHIBIT

7 Sensitive Input Group 5: Fiber Feeder Investment

- B53 Buried Fiber Sheath Addition, per Foot
- B57 Fiber Feeder Cable Investment

8 Sensitive Input Group 6: Structure Placement Fractions

- B5 Drop Structure Fractions
- B17 Distribution Structure Fractions
- B46 Copper Feeder Structure Fractions
- B51 Fiber Feeder Structure Fractions
- B121 Interoffice Structure Fractions

9 Sensitive Input Group 7: Structure Sharing Fractions

- B130 Fraction of Interoffice Structure Assigned to Telephone
- B180 Distribution and Feeder Fractions Assigned to Telephone

10 Sensitive Input Group 8: Copper and Fiber Sizing Factors

- B18 Distribution Cable Sizing Factor
- B54 Copper Feeder Sizing Factor
- B55 Fiber Feeder Sizing Factor

11 Sensitive Input Group 9: DLC

- B58 DLC Site and Power per Remote Terminal
- B59 Maximum Line Size per Remote Terminal
- B60 Remote Terminal Fill Factor
- B61 DLC Initial Common Equipment Investment
- B62 DLC Channel Unit Investment
- B63 DLC Lines per Channel Unit
- B64 Low Density DLC to TR-303 DLC Cutover
- B65 Fibers per Remote Terminal
- B66 Optical Patch Panel
- B68 Common Equipment Investment per Additional Line Increment
- B69 Maximum Number of Additional Line Modules per Remote

EXHIBIT

12 Sensitive Input Group 10: Interoffice Investment

- B107 Transmission Terminal Investment
- B108 Number of Fibers
- B109 Pigtails
- B110 Optical Distribution Panel
- B111 E, F & I per Hour
- B115 Channel Bank Investment, per 24 Lines
- B117 Digital Cross Connect System, Installed, per DS-3
- B118 Transmission Terminal Fill
- B119 Interoffice Fiber Cable Investment per Foot, Installed
- B122 Transport Placement
- B124 Interoffice Conduit Cost and Number of Spare Tubes

13 Sensitive Input Group 11: Switching Factors

- B77 Switch Port Administrative Fill
- B79 MDF/Protector Investment per Line
- B81 Switch Installation Multiplier
- B82 Constant EO Switching Investment Term, BOC and Large ICO
- B88 Wire Center Power Investment
- B103 Busy Hour Fraction of Daily Usage
- B104 Annual to Daily Usage Reduction Factor
- B131 Operator Traffic Fraction
- B132 Total Interoffice Traffic Fraction
- B134 Trunk Port, per End
- B136 Tandem-Routed Fraction of Total IntraLATA Traffic
- B137 Tandem-Routed Fraction of Total InterLATA Traffic
- B150 STP Link Capacity
- B153 Minimum STP Investment, per Pair
- B154 Link Termination, Both Ends
- B157 C Link Cross Section
- B162 Fraction of BHCA requiring TCAP
- B163 SCP Investment/Transaction/Second
- B166 Operator Invention Factor

EXHIBIT

14 Sensitive Input Group 12: Expense Factors

- B181 Income Tax Rate
- B183 Other Taxes Factor
- B186 Forward-Looking Network Operations Factor
- B187 Alternative CO Switching Expense Factor
- B188 Alternative Circuit Equipment Factor
 - Other Expense Factors

15 Sensitive Input Group 13: Cost of Capital

- B178 Cost of debt, Debt Fraction and Cost of Equity

16 Sensitive Input Group 14: Depreciation

- B179 Depreciation Lives by Plant Type
- B179 Net Salvage Percentage by Plant Type

17 BST Cost and Operational Data

Exhibit 2

Values for User-Adjustable Inputs: Alternative Values Compared to HAI R5.0a Appendix B Default Values

HM5.0a Inputs - BellSouth Telecommunications, Inc.

HM 5.0A	HM 5.0A Default Scenario Value	HM 5.0A									
		Alabama	Florida	Georgia	Kentucky	Louisiana	Mississippi	N. Carolina	S. Carolina	Tennessee	
Distribution NID											
1. B1	Residential NID case, no protector	\$ 10.00	\$ 7.43	\$ 7.57	\$ 7.43	\$ 7.57	\$ 7.43	\$ 7.64	\$ 7.43	\$ 7.50	\$ 7.57
2. B1	Residential NID basic labor	\$ 15.00	\$ 31.62	\$ 38.08	\$ 39.10	\$ 32.30	\$ 34.00	\$ 32.30	\$ 27.20	\$ 28.90	\$ 35.70
3. B1	Residential Protection Block, per pair	\$ 4.00	\$ 7.92	\$ 8.08	\$ 7.92	\$ 8.08	\$ 7.92	\$ 8.15	\$ 7.92	\$ 8.00	\$ 8.08
5. B1	Business NID case, no protector	\$ 25.00	\$ 7.43	\$ 7.57	\$ 7.43	\$ 7.57	\$ 7.43	\$ 7.64	\$ 7.43	\$ 7.50	\$ 7.57
6. B1	Business NID basic labor	\$ 15.00	\$ 31.62	\$ 38.08	\$ 39.10	\$ 32.30	\$ 34.00	\$ 32.30	\$ 27.20	\$ 28.90	\$ 35.70
7. B1	Business Protection Block, per pair	\$ 4.00	\$ 7.92	\$ 8.08	\$ 7.92	\$ 8.08	\$ 7.92	\$ 8.15	\$ 7.92	\$ 8.00	\$ 8.08
8. B1	Indoor NID case	\$ 5.00	no change	no change	no change	no change	no change	no change	no change	no change	no change
Labor Adjustment Factors											
9. B16	Regional Labor Adjustment Factor	1.000	no change	no change	no change	no change	no change				
10. B16a	Contractor excavation and restoration	0.125	no change	no change	no change	no change	no change				
11. B16a	Telco construction – copper	0.164	no change	no change	no change	no change	no change				
12. B16a	Telco construction – fiber	0.364	no change	no change	no change	no change	no change				
13. B16a	Telco drop/NID installation and maintenance	0.571	no change	no change	no change	no change	no change				
14. B16a	Contractor pole setting	0.518	no change	no change	no change	no change	no change				
Distribution DROP											
15. B2	Drop Distance, feet - 0	150	273	215	298	293	268	312	250	262	292
16. B2	Drop Distance, feet - 5	150	273	215	298	293	268	312	250	262	292
17. B2	Drop Distance, feet - 100	100	273	215	298	293	268	312	250	262	292
18. B2	Drop Distance, feet - 200	100	273	215	298	293	268	312	250	262	292
19. B2	Drop Distance, feet - 650	50	273	215	298	293	268	312	250	262	292
20. B2	Drop Distance, feet - 850	50	273	215	298	293	268	312	250	262	292
21. B2	Drop Distance, feet - 2550	50	273	215	298	293	268	312	250	262	292
22. B2	Drop Distance, feet - 5000	50	273	215	298	293	268	312	250	262	292
23. B2	Drop Distance, feet - 10000	50	273	215	298	293	268	312	250	262	292
24. B3	Aerial Drop Placement (total) - 0	\$ 23.33	\$ 52.70	\$ 44.88	\$ 49.30	\$ 45.90	\$ 51.00	\$ 59.50	\$ 51.00	\$ 49.30	\$ 49.30
25. B3	Aerial Drop Placement (total) - 5	\$ 23.33	\$ 52.70	\$ 44.88	\$ 49.30	\$ 45.90	\$ 51.00	\$ 59.50	\$ 51.00	\$ 49.30	\$ 49.30
26. B3	Aerial Drop Placement (total) - 100	\$ 17.50	\$ 52.70	\$ 44.88	\$ 49.30	\$ 45.90	\$ 51.00	\$ 59.50	\$ 51.00	\$ 49.30	\$ 49.30
27. B3	Aerial Drop Placement (total) - 200	\$ 17.50	\$ 52.70	\$ 44.88	\$ 49.30	\$ 45.90	\$ 51.00	\$ 59.50	\$ 51.00	\$ 49.30	\$ 49.30
28. B3	Aerial Drop Placement (total) - 650	\$ 11.67	\$ 52.70	\$ 44.88	\$ 49.30	\$ 45.90	\$ 51.00	\$ 59.50	\$ 51.00	\$ 49.30	\$ 49.30
29. B3	Aerial Drop Placement (total) - 850	\$ 11.67	\$ 52.70	\$ 44.88	\$ 49.30	\$ 45.90	\$ 51.00	\$ 59.50	\$ 51.00	\$ 49.30	\$ 49.30
30. B3	Aerial Drop Placement (total) - 2550	\$ 11.67	\$ 52.70	\$ 44.88	\$ 49.30	\$ 45.90	\$ 51.00	\$ 59.50	\$ 51.00	\$ 49.30	\$ 49.30
31. B3	Aerial Drop Placement (total) - 5000	\$ 11.67	\$ 52.70	\$ 44.88	\$ 49.30	\$ 45.90	\$ 51.00	\$ 59.50	\$ 51.00	\$ 49.30	\$ 49.30
32. B3	Aerial Drop Placement (total) - 10000	\$ 11.67	\$ 52.70	\$ 44.88	\$ 49.30	\$ 45.90	\$ 51.00	\$ 59.50	\$ 51.00	\$ 49.30	\$ 49.30

HM 5.0A		Default									
	HM 5.0A	Scenario Value	Alabama	Florida	Georgia	Kentucky	Louisiana	Mississippi	N. Carolina	S. Carolina	Tennessee
33. B3	Buried Drop Placement (total) - 0	\$ 0.60	\$ 0.54	\$ 0.50	\$ 0.50	\$ 0.59	\$ 0.54	\$ 0.53	\$ 0.69	\$ 0.64	\$ 0.49
34. B3	Buried Drop Placement (total) - 5	\$ 0.60	\$ 0.54	\$ 0.50	\$ 0.50	\$ 0.59	\$ 0.54	\$ 0.53	\$ 0.69	\$ 0.64	\$ 0.49
35. B3	Buried Drop Placement (total) - 100	\$ 0.60	\$ 0.54	\$ 0.50	\$ 0.50	\$ 0.59	\$ 0.54	\$ 0.53	\$ 0.69	\$ 0.64	\$ 0.49
36. B3	Buried Drop Placement (total) - 200	\$ 0.60	\$ 0.54	\$ 0.50	\$ 0.50	\$ 0.59	\$ 0.54	\$ 0.53	\$ 0.69	\$ 0.64	\$ 0.49
37. B3	Buried Drop Placement (total) - 650	\$ 0.60	\$ 0.54	\$ 0.50	\$ 0.50	\$ 0.59	\$ 0.54	\$ 0.53	\$ 0.69	\$ 0.64	\$ 0.49
38. B3	Buried Drop Placement (total) - 850	\$ 0.60	\$ 0.54	\$ 0.50	\$ 0.50	\$ 0.59	\$ 0.54	\$ 0.53	\$ 0.69	\$ 0.64	\$ 0.49
39. B3	Buried Drop Placement (total) - 2550	\$ 0.75	\$ 0.54	\$ 0.50	\$ 0.50	\$ 0.59	\$ 0.54	\$ 0.53	\$ 0.69	\$ 0.64	\$ 0.49
40. B3	Buried Drop Placement (total) - 5000	\$ 1.50	\$ 0.54	\$ 0.50	\$ 0.50	\$ 0.59	\$ 0.54	\$ 0.53	\$ 0.69	\$ 0.64	\$ 0.49
41. B3	Buried Drop Placement (total) - 10000	\$ 5.00	\$ 0.54	\$ 0.50	\$ 0.50	\$ 0.59	\$ 0.54	\$ 0.53	\$ 0.69	\$ 0.64	\$ 0.49
42. B4	Buried Drop Sharing Fraction - 0	0.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
43. B4	Buried Drop Sharing Fraction - 5	0.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
44. B4	Buried Drop Sharing Fraction - 100	0.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
45. B4	Buried Drop Sharing Fraction - 200	0.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
46. B4	Buried Drop Sharing Fraction - 650	0.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
47. B4	Buried Drop Sharing Fraction - 850	0.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
48. B4	Buried Drop Sharing Fraction - 2550	0.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
49. B4	Buried Drop Sharing Fraction - 5000	0.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
50. B4	Buried Drop Sharing Fraction - 10000	0.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
51. B5	Buried Drop Fraction - 0	0.750	0.511	0.703	0.511	0.426	0.675	0.533	0.642	0.759	0.443
52. B5	Buried Drop Fraction - 5	0.750	0.511	0.703	0.511	0.426	0.675	0.533	0.642	0.759	0.443
53. B5	Buried Drop Fraction - 100	0.750	0.511	0.703	0.511	0.426	0.675	0.533	0.642	0.759	0.443
54. B5	Buried Drop Fraction - 200	0.700	0.511	0.703	0.511	0.426	0.675	0.533	0.642	0.759	0.443
55. B5	Buried Drop Fraction - 650	0.700	0.511	0.703	0.511	0.426	0.675	0.533	0.642	0.759	0.443
56. B5	Buried Drop Fraction - 850	0.700	0.511	0.703	0.511	0.426	0.675	0.533	0.642	0.759	0.443
57. B5	Buried Drop Fraction - 2550	0.700	0.511	0.703	0.511	0.426	0.675	0.533	0.642	0.759	0.443
58. B5	Buried Drop Fraction - 5000	0.400	0.511	0.703	0.511	0.426	0.675	0.533	0.642	0.759	0.443
59. B5	Buried Drop Fraction - 10000	0.150	0.511	0.703	0.511	0.426	0.675	0.533	0.642	0.759	0.443
60. B6	Average Lines per business location	4	no change	no change	no change	no change	no change	no change	no change	no change	no change
61. B7	Terminal and Splice per line, buried	\$ 42.50	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
62. B7	Terminal and Splice per line, aerial	\$ 32.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
63. B8	Drop cable investment per foot buried	\$ 0.140	\$ 0.135	\$ 0.138	\$ 0.135	\$ 0.138	\$ 0.135	\$ 0.139	\$ 0.135	\$ 0.137	\$ 0.138
64. B8	Drop cable buried pairs	3	3	3	3	3	3	3	3	3	3
65. B8	Drop cable investment per foot aerial	\$ 0.095	\$ 0.076	\$ 0.079	\$ 0.076	\$ 0.078	\$ 0.078	\$ 0.078	\$ 0.077	\$ 0.077	\$ 0.078
66. B8	Drop cable aerial pairs	2	2	2	2	2	2	2	2	2	2

HM 5.0A	Default	HM 5.0A									
		Scenario Value	Alabama	Florida	Georgia	Kentucky	Louisiana	Mississippi	N. Carolina	S. Carolina	Tennessee
Distribution Cable & Riser											
67. B9	Distribution Cable Size 1	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
68. B9	Distribution Cable Size 2	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
69. B9	Distribution Cable Size 3	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
70. B9	Distribution Cable Size 4	900	900	900	900	900	900	900	900	900	900
71. B9	Distribution Cable Size 5	600	600	600	600	600	600	600	600	600	600
72. B9	Distribution Cable Size 6	400	400	400	400	400	400	400	400	400	400
73. B9	Distribution Cable Size 7	200	200	200	200	200	200	200	200	200	200
74. B9	Distribution Cable Size 8	100	100	100	100	100	100	100	100	100	100
75. B9	Distribution Cable Size 9	50	50	50	50	50	50	50	50	50	50
76. B9	Distribution Cable Size 10	25	25	25	25	25	25	25	25	25	25
77. B9	Distribution Cable Size 11	12	12	12	12	12	12	12	12	12	12
78. B9	Distribution Cable Size 12	6	6	6	6	6	6	6	6	6	6
79. B10	Distribution Cable Investment per foot 1	\$ 20.00	\$ 53.79	\$ 77.60	\$ 57.80	\$ 43.58	\$ 78.58	\$ 55.93	\$ 61.48	\$ 95.87	\$ 46.04
80. B10	Distribution Cable Investment per foot 2	\$ 16.00	\$ 40.14	\$ 57.91	\$ 43.13	\$ 32.52	\$ 57.15	\$ 41.74	\$ 45.86	\$ 71.54	\$ 34.36
81. B10	Distribution Cable Investment per foot 3	\$ 12.00	\$ 26.95	\$ 38.88	\$ 28.98	\$ 21.83	\$ 38.37	\$ 28.02	\$ 30.79	\$ 48.03	\$ 23.07
82. B10	Distribution Cable Investment per foot 4	\$ 10.00	\$ 20.13	\$ 29.04	\$ 21.63	\$ 18.31	\$ 26.65	\$ 20.83	\$ 23.00	\$ 35.87	\$ 17.23
83. B10	Distribution Cable Investment per foot 5	\$ 7.75	\$ 13.64	\$ 19.68	\$ 14.68	\$ 11.05	\$ 19.42	\$ 14.19	\$ 15.59	\$ 24.32	\$ 11.68
84. B10	Distribution Cable Investment per foot 6	\$ 6.00	\$ 9.08	\$ 13.09	\$ 9.75	\$ 7.35	\$ 12.92	\$ 9.44	\$ 10.37	\$ 16.18	\$ 7.77
85. B10	Distribution Cable Investment per foot 7	\$ 4.25	\$ 5.30	\$ 7.65	\$ 5.69	\$ 4.29	\$ 7.54	\$ 5.51	\$ 6.05	\$ 9.44	\$ 4.54
86. B10	Distribution Cable Investment per foot 8	\$ 2.50	\$ 3.10	\$ 4.47	\$ 3.33	\$ 2.51	\$ 4.41	\$ 3.22	\$ 3.54	\$ 5.53	\$ 2.65
87. B10	Distribution Cable Investment per foot 9	\$ 1.63	\$ 2.14	\$ 3.09	\$ 2.30	\$ 1.74	\$ 3.05	\$ 2.23	\$ 2.45	\$ 3.82	\$ 1.83
88. B10	Distribution Cable Investment per foot 10	\$ 1.19	\$ 1.52	\$ 2.20	\$ 1.84	\$ 1.23	\$ 2.17	\$ 1.58	\$ 1.74	\$ 2.71	\$ 1.30
89. B10	Distribution Cable Investment per foot 11	\$ 0.76	\$ 1.23	\$ 1.77	\$ 1.32	\$ 1.00	\$ 1.75	\$ 1.28	\$ 1.40	\$ 2.19	\$ 1.05
90. B10	Distribution Cable Investment per foot 12	\$ 0.63	\$ 1.09	\$ 1.58	\$ 1.16	\$ 0.89	\$ 1.56	\$ 1.14	\$ 1.25	\$ 1.95	\$ 0.94
91. B11	Distribution Riser Cable Size 1	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
92. B11	Distribution Riser Cable Size 2	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
93. B11	Distribution Riser Cable Size 3	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
94. B11	Distribution Riser Cable Size 4	900	900	900	900	900	900	900	900	900	900
95. B11	Distribution Riser Cable Size 5	600	600	600	600	600	600	600	600	600	600
96. B11	Distribution Riser Cable Size 6	400	400	400	400	400	400	400	400	400	400
97. B11	Distribution Riser Cable Size 7	200	200	200	200	200	200	200	200	200	200
98. B11	Distribution Riser Cable Size 8	100	100	100	100	100	100	100	100	100	100
99. B11	Distribution Riser Cable Size 9	50	50	50	50	50	50	50	50	50	50
100. B11	Distribution Riser Cable Size 10	25	25	25	25	25	25	25	25	25	25
101. B11	Distribution Riser Cable Size 11	12	12	12	12	12	12	12	12	12	12
102. B11	Distribution Riser Cable Size 12	6	6	6	6	6	6	6	6	6	6

HM 5.0A		HM 5.0A Default Scenario Value	Alabama	Florida	Georgia	Kentucky	Louisiana	Mississippi	N. Carolina	S. Carolina	Tennessee
103. B11	Distribution Riser Cable Investment per foot 1	\$ 25.00	no change	no change	no change	no change					
104. B11	Distribution Riser Cable Investment per foot 2	\$ 20.00	no change	no change	no change	no change					
105. B11	Distribution Riser Cable Investment per foot 3	\$ 15.00	no change	no change	no change	no change					
106. B11	Distribution Riser Cable Investment per foot 4	\$ 12.50	no change	no change	no change	no change					
107. B11	Distribution Riser Cable Investment per foot 5	\$ 10.00	no change	no change	no change	no change					
108. B11	Distribution Riser Cable Investment per foot 6	\$ 7.50	no change	no change	no change	no change					
109. B11	Distribution Riser Cable Investment per foot 7	\$ 5.30	no change	no change	no change	no change					
110. B11	Distribution Riser Cable Investment per foot 8	\$ 3.15	no change	no change	no change	no change					
111. B11	Distribution Riser Cable Investment per foot 9	\$ 2.05	no change	no change	no change	no change					
112. B11	Distribution Riser Cable Investment per foot 10	\$ 1.50	no change	no change	no change	no change					
113. B11	Distribution Riser Cable Investment per foot 11	\$ 0.95	no change	no change	no change	no change					
114. B11	Distribution Riser Cable Investment per foot 12	\$ 0.60	no change	no change	no change	no change					
Distribution Poles and Conduit											
115. B12	Pole Investment	201	no change	no change	no change	no change					
116. B12	Pole Labor	216	no change	no change	no change	no change					
117. B13	Buried Cable Jacketing Multiplier	1.040	1.036	1.025	1.034	1.044	1.025	1.035	1.032	1.020	1.042
118. B14	Conduit Investment per foot	\$ 0.60	no change	no change	no change	no change					
119. B15	Spare Tubes per route	1	no change	no change	no change	no change					
Distribution Placement Fraction											
120. B17	Buried Fraction - 0	0.750	0.496	0.671	0.505	0.409	0.666	0.531	0.624	0.745	0.436
121. B17	Buried Fraction - 5	0.750	0.496	0.671	0.505	0.409	0.666	0.531	0.624	0.745	0.436
122. B17	Buried Fraction - 100	0.750	0.496	0.671	0.505	0.409	0.666	0.531	0.624	0.745	0.436
123. B17	Buried Fraction - 200	0.700	0.496	0.671	0.505	0.409	0.666	0.531	0.624	0.745	0.436
124. B17	Buried Fraction - 650	0.700	0.496	0.671	0.505	0.409	0.666	0.531	0.624	0.745	0.436
125. B17	Buried Fraction - 850	0.700	0.496	0.671	0.505	0.409	0.666	0.531	0.624	0.745	0.436
126. B17	Buried Fraction - 2550	0.650	0.496	0.671	0.505	0.409	0.666	0.531	0.624	0.745	0.436
127. B17	Buried Fraction - 5000	0.350	0.496	0.671	0.505	0.409	0.666	0.531	0.624	0.745	0.436
128. B17	Buried Fraction - 10000	0.050	0.496	0.671	0.505	0.409	0.666	0.531	0.624	0.745	0.436
129. B17	Aerial Cable Fraction - 0	0.250	0.489	0.297	0.489	0.574	0.325	0.467	0.358	0.241	0.557
130. B17	Aerial Cable Fraction - 5	0.250	0.489	0.297	0.489	0.574	0.325	0.467	0.358	0.241	0.557
131. B17	Aerial Cable Fraction - 100	0.250	0.489	0.297	0.489	0.574	0.325	0.467	0.358	0.241	0.557
132. B17	Aerial Cable Fraction - 200	0.300	0.489	0.297	0.489	0.574	0.325	0.467	0.358	0.241	0.557
133. B17	Aerial Cable Fraction - 650	0.300	0.489	0.297	0.489	0.574	0.325	0.467	0.358	0.241	0.557
134. B17	Aerial Cable Fraction - 850	0.300	0.489	0.297	0.489	0.574	0.325	0.467	0.358	0.241	0.557
135. B17	Aerial Cable Fraction - 2550	0.300	0.489	0.297	0.489	0.574	0.325	0.467	0.358	0.241	0.557
136. B17	Aerial Cable Fraction - 5000	0.600	0.489	0.297	0.489	0.574	0.325	0.467	0.358	0.241	0.557
137. B17	Aerial Cable Fraction - 10000	0.850	0.489	0.297	0.489	0.574	0.325	0.467	0.358	0.241	0.557

HM 5.0A	Default Scenario Value	HM 5.0A									
		Alabama	Florida	Georgia	Kentucky	Louisiana	Mississippi	N. Carolina	S. Carolina	Tennessee	
138. B17	Buried fraction available for shift - 0	0.750	no change	no change	no change	no change	no change				
139. B17	Buried fraction available for shift - 5	0.750	no change	no change	no change	no change	no change				
140. B17	Buried fraction available for shift - 100	0.750	no change	no change	no change	no change	no change				
141. B17	Buried fraction available for shift - 200	0.750	no change	no change	no change	no change	no change				
142. B17	Buried fraction available for shift - 650	0.750	no change	no change	no change	no change	no change				
143. B17	Buried fraction available for shift - 850	0.750	no change	no change	no change	no change	no change				
144. B17	Buried fraction available for shift - 2550	0.750	no change	no change	no change	no change	no change				
145. B17	Buried fraction available for shift - 5000	0.000	no change	no change	no change	no change	no change				
146. B17	Buried fraction available for shift - 10000	0.000	no change	no change	no change	no change	no change				
Distribution Fill & Pole Spacing											
147. B18	Distribution Cable Fill - 0	0.500	0.739	0.596	0.656	0.761	0.590	0.768	0.644	0.642	0.815
148. B18	Distribution Cable Fill - 5	0.550	0.739	0.596	0.656	0.761	0.590	0.768	0.644	0.642	0.815
149. B18	Distribution Cable Fill - 100	0.550	0.739	0.596	0.656	0.761	0.590	0.768	0.644	0.642	0.815
150. B18	Distribution Cable Fill - 200	0.600	0.739	0.596	0.656	0.761	0.590	0.768	0.644	0.642	0.815
151. B18	Distribution Cable Fill - 650	0.650	0.739	0.596	0.656	0.761	0.590	0.768	0.644	0.642	0.815
152. B18	Distribution Cable Fill - 850	0.700	0.739	0.596	0.656	0.761	0.590	0.768	0.644	0.642	0.815
153. B18	Distribution Cable Fill - 2550	0.750	0.739	0.596	0.656	0.761	0.590	0.768	0.644	0.642	0.815
154. B18	Distribution Cable Fill - 5000	0.750	0.739	0.596	0.656	0.761	0.590	0.768	0.644	0.642	0.815
155. B18	Distribution Cable Fill - 10000	0.750	0.739	0.596	0.656	0.761	0.590	0.768	0.644	0.642	0.815
156. B19	Pole Spacing, feet - 0	250	no change	no change	no change	no change	no change				
157. B19	Pole Spacing, feet - 5	250	no change	no change	no change	no change	no change				
158. B19	Pole Spacing, feet - 100	200	no change	no change	no change	no change	no change				
159. B19	Pole Spacing, feet - 200	200	no change	no change	no change	no change	no change				
160. B19	Pole Spacing, feet - 650	175	no change	no change	no change	no change	no change				
161. B19	Pole Spacing, feet - 850	175	no change	no change	no change	no change	no change				
162. B19	Pole Spacing, feet - 2550	150	no change	no change	no change	no change	no change				
163. B19	Pole Spacing, feet - 5000	150	no change	no change	no change	no change	no change				
164. B19	Pole Spacing, feet - 10000	150	no change	no change	no change	no change	no change				
Distribution Geology and Clusters											
165. B20	Distance Multiplier for difficult terrain	1.00	no change	no change	no change	no change	no change				
166. B21	Rock Depth Threshold, inches	24	no change	no change	no change	no change	no change				
167. B22	Hard Rock Placement Multiplier	3.50	no change	no change	no change	no change	no change				
168. B23	Soft Rock Placement Multiplier	2.00	no change	no change	no change	no change	no change				
169. B24	Sidewalk/Street Fraction	0.20	no change	no change	no change	no change	no change				
170. B25	Local RT - Maximum Total Distance	18,000	no change	no change	no change	no change	no change				
171. B26	Feeder steering enable	FALSE	no change	no change	no change	no change	no change				
172. B27	Main feeder route/air multiplier	1.27	no change	no change	no change	no change	no change				
173. B27a	Rectangular cluster switch	FALSE	no change	no change	no change	no change	no change	no change	no change	no change	no change

HM 5.0A	HM 5.0A Default									
	Scenario Value	Alabama	Florida	Georgia	Kentucky	Louisiana	Mississippi	N. Carolina	S. Carolina	Tennessee
Distribution Long loop Investments										
174. B28	Repeater Investment, installed	\$ 527	no change	no change	no change	no change				
175. B29	Integrated COT, Installed	\$ 420	no change	no change	no change	no change				
176. B30	Remote Multiplexer Common Equip Inv, Installed	\$ 8,200	no change	no change	no change	no change				
177. B31	Channel Unit Investment, per subscriber	\$ 125	no change	no change	no change	no change				
178. B32	COT Investment per RT, Installed	\$ 1,170	no change	no change	no change	no change				
179. B33	Remote Terminal fill factor	0.9000	no change	no change	no change	no change				
180. B34	Maximum T1s per cable	8	no change	no change	no change	no change				
181. B35	T1 repeater spacing, dB	32	no change	no change	no change	no change				
182. B36	Aerial T1 attenuation, dB/kft	6.30	no change	no change	no change	no change				
183. B37	Buried T1 attenuation, dB/kft	5.00	no change	no change	no change	no change				
Distribution SAI										
184. B38	SAI Cable Size 1	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
185. B38	SAI Cable Size 2	5,400	5,400	5,400	5,400	5,400	5,400	5,400	5,400	5,400
186. B38	SAI Cable Size 3	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
187. B38	SAI Cable Size 4	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
188. B38	SAI Cable Size 5	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
189. B38	SAI Cable Size 6	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
190. B38	SAI Cable Size 7	900	900	900	900	900	900	900	900	900
191. B38	SAI Cable Size 8	600	600	600	600	600	600	600	600	600
192. B38	SAI Cable Size 9	400	400	400	400	400	400	400	400	400
193. B38	SAI Cable Size 10	200	200	200	200	200	200	200	200	200
194. B38	SAI Cable Size 11	100	100	100	100	100	100	100	100	100
195. B38	SAI Cable Size 12	50	0	0	0	0	0	0	0	0
196. B38	SAI Indoor Investment 1	\$ 9,656	no change	no change	no change	no change				
197. B38	SAI Indoor Investment 2	\$ 7,392	no change	no change	no change	no change				
198. B38	SAI Indoor Investment 3	\$ 4,928	no change	no change	no change	no change				
199. B38	SAI Indoor Investment 4	\$ 3,352	no change	no change	no change	no change				
200. B38	SAI Indoor Investment 5	\$ 2,464	no change	no change	no change	no change				
201. B38	SAI Indoor Investment 6	\$ 1,776	no change	no change	no change	no change				
202. B38	SAI Indoor Investment 7	\$ 1,232	no change	no change	no change	no change				
203. B38	SAI Indoor Investment 8	\$ 888	no change	no change	no change	no change				
204. B38	SAI Indoor Investment 9	\$ 592	no change	no change	no change	no change				
205. B38	SAI Indoor Investment 10	\$ 296	no change	no change	no change	no change				
206. B38	SAI Indoor Investment 11	\$ 148	no change	no change	no change	no change				
207. B38	SAI Indoor Investment 12	\$ 98	no change	no change	no change	no change	no change	no change	no change	no change

HM 5.0A		HM 5.0A Default									
	Scenario Value	Alabama	Florida	Georgia	Kentucky	Louisiana	Mississippi	N. Carolina	S. Carolina	Tennessee	
208. B38	SAI Outdoor Investment 1	\$ 10,000	\$ 28,000	\$ 40,400	\$ 30,100	\$ 22,700	\$ 39,900	\$ 29,100	\$ 32,000	\$ 49,900	\$ 24,000
209. B38	SAI Outdoor Investment 2	\$ 8,200	\$ 23,400	\$ 33,700	\$ 25,100	\$ 18,900	\$ 33,200	\$ 24,300	\$ 26,700	\$ 41,600	\$ 20,000
210. B38	SAI Outdoor Investment 3	\$ 6,000	\$ 18,700	\$ 27,000	\$ 20,100	\$ 15,100	\$ 26,600	\$ 19,400	\$ 21,300	\$ 33,300	\$ 16,000
211. B38	SAI Outdoor Investment 4	\$ 4,300	\$ 14,600	\$ 21,000	\$ 15,600	\$ 11,800	\$ 20,700	\$ 15,100	\$ 16,600	\$ 25,900	\$ 12,500
212. B38	SAI Outdoor Investment 5	\$ 3,400	\$ 12,500	\$ 18,000	\$ 13,400	\$ 10,100	\$ 17,700	\$ 13,000	\$ 14,200	\$ 22,200	\$ 10,700
213. B38	SAI Outdoor Investment 6	\$ 2,400	\$ 9,100	\$ 13,100	\$ 9,700	\$ 7,300	\$ 12,900	\$ 9,400	\$ 10,400	\$ 16,200	\$ 7,800
214. B38	SAI Outdoor Investment 7	\$ 1,900	\$ 7,300	\$ 10,600	\$ 7,900	\$ 5,900	\$ 10,400	\$ 7,800	\$ 8,400	\$ 13,100	\$ 6,300
215. B38	SAI Outdoor Investment 8	\$ 1,400	\$ 5,500	\$ 7,800	\$ 5,900	\$ 4,500	\$ 7,800	\$ 5,700	\$ 6,300	\$ 9,800	\$ 4,700
216. B38	SAI Outdoor Investment 9	\$ 1,000	\$ 3,900	\$ 5,600	\$ 4,200	\$ 3,100	\$ 5,500	\$ 4,000	\$ 4,400	\$ 6,900	\$ 3,300
217. B38	SAI Outdoor Investment 10	\$ 600	\$ 2,300	\$ 3,200	\$ 2,400	\$ 1,800	\$ 3,200	\$ 2,300	\$ 2,600	\$ 4,000	\$ 1,900
218. B38	SAI Outdoor Investment 11	\$ 350	\$ 1,400	\$ 2,100	\$ 1,500	\$ 1,200	\$ 2,000	\$ 1,500	\$ 1,600	\$ 2,600	\$ 1,200
219. B38	SAI Outdoor Investment 12	\$ 250	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Distribution - Dedicated circuit inputs											
Percentage of dedicated circuits											
220. B39	DS-0 fraction	1.00	no change	no change	no change	no change	no change				
221. B39	DS-1 fraction	0.00	no change	no change	no change	no change	no change	no change	no change	no change	no change
Pairs per dedicated circuit											
222. B40	DS-0 pair equivalent	1	no change	no change	no change	no change	no change				
223. B40	DS-1 pair equivalent	2	no change	no change	no change	no change	no change				
224. B40	DS-3 pair equivalent	56	no change	no change	no change	no change	no change				
Distribution - Wireless Investment											
225. B41	Wireless Investment Cap Enabled	FALSE	no change	no change	no change	no change	no change				
226. B42	Wireless Point to Point Inv cap - distribution, per line	\$ 7,500	no change	no change	no change	no change	no change				
227. B43	Wireless Common Inv, broadcast	\$ 112,500	no change	no change	no change	no change	no change				
228. B44	Wireless per line inv, broadcast	\$ 500	no change	no change	no change	no change	no change				
229. B45	Maximum broadcast lines for common inv	30	no change	no change	no change	no change	no change				

HM 5.0A		Default									
	Scenario Value	Alabama	Florida	Georgia	Kentucky	Louisiana	Mississippi	N. Carolina	S. Carolina	Tennessee	
Feeder Copper placement											
230. B46	Copper Aerial Fraction - 0	0.500	0.208	0.042	0.184	0.301	0.089	0.391	0.245	0.170	0.250
231. B46	Copper Aerial Fraction - 5	0.500	0.208	0.042	0.184	0.301	0.089	0.391	0.245	0.170	0.250
232. B46	Copper Aerial Fraction - 100	0.500	0.208	0.042	0.184	0.301	0.089	0.391	0.245	0.170	0.250
233. B46	Copper Aerial Fraction - 200	0.400	0.208	0.042	0.184	0.301	0.089	0.391	0.245	0.170	0.250
234. B46	Copper Aerial Fraction - 650	0.300	0.208	0.042	0.184	0.301	0.089	0.391	0.245	0.170	0.250
235. B46	Copper Aerial Fraction - 850	0.200	0.208	0.042	0.184	0.301	0.089	0.391	0.245	0.170	0.250
236. B46	Copper Aerial Fraction - 2550	0.150	0.208	0.042	0.184	0.301	0.089	0.391	0.245	0.170	0.250
237. B46	Copper Aerial Fraction - 5000	0.100	0.208	0.042	0.184	0.301	0.089	0.391	0.245	0.170	0.250
238. B46	Copper Aerial Fraction - 10000	0.050	0.208	0.042	0.184	0.301	0.089	0.391	0.245	0.170	0.250
239. B46	Copper Buried Fraction - 0	0.450	0.139	0.240	0.081	0.085	0.160	0.115	0.136	0.133	0.157
240. B46	Copper Buried Fraction - 5	0.450	0.139	0.240	0.081	0.085	0.160	0.115	0.136	0.133	0.157
241. B46	Copper Buried Fraction - 100	0.450	0.139	0.240	0.081	0.085	0.160	0.115	0.136	0.133	0.157
242. B46	Copper Buried Fraction - 200	0.400	0.139	0.240	0.081	0.085	0.160	0.115	0.136	0.133	0.157
243. B46	Copper Buried Fraction - 650	0.300	0.139	0.240	0.081	0.085	0.160	0.115	0.136	0.133	0.157
244. B46	Copper Buried Fraction - 850	0.200	0.139	0.240	0.081	0.085	0.160	0.115	0.136	0.133	0.157
245. B46	Copper Buried Fraction - 2550	0.100	0.139	0.240	0.081	0.085	0.160	0.115	0.136	0.133	0.157
246. B46	Copper Buried Fraction - 5000	0.050	0.139	0.240	0.081	0.085	0.160	0.115	0.136	0.133	0.157
247. B46	Copper Buried Fraction - 10000	0.050	0.139	0.240	0.081	0.085	0.160	0.115	0.136	0.133	0.157
Feeder Copper placement											
248. B47	Copper Manhole Spacing, feet - 0	800	no change	no change	no change	no change	no change				
249. B47	Copper Manhole Spacing, feet - 5	800	no change	no change	no change	no change	no change				
250. B47	Copper Manhole Spacing, feet - 100	800	no change	no change	no change	no change	no change				
251. B47	Copper Manhole Spacing, feet - 200	800	no change	no change	no change	no change	no change				
252. B47	Copper Manhole Spacing, feet - 650	600	no change	no change	no change	no change	no change				
253. B47	Copper Manhole Spacing, feet - 850	600	no change	no change	no change	no change	no change				
254. B47	Copper Manhole Spacing, feet - 2550	600	no change	no change	no change	no change	no change				
255. B47	Copper Manhole Spacing, feet - 5000	400	no change	no change	no change	no change	no change				
256. B47	Copper Manhole Spacing, feet - 10000	400	no change	no change	no change	no change	no change				
257. B48	Pole Spacing, feet - 0	250	no change	no change	no change	no change	no change				
258. B48	Pole Spacing, feet - 5	250	no change	no change	no change	no change	no change				
259. B48	Pole Spacing, feet - 100	200	no change	no change	no change	no change	no change				
260. B48	Pole Spacing, feet - 200	200	no change	no change	no change	no change	no change				
261. B48	Pole Spacing, feet - 650	175	no change	no change	no change	no change	no change				
262. B48	Pole Spacing, feet - 850	175	no change	no change	no change	no change	no change				
263. B48	Pole Spacing, feet - 2550	150	no change	no change	no change	no change	no change				
264. B48	Pole Spacing, feet - 5000	150	no change	no change	no change	no change	no change				
265. B48	Pole Spacing, feet - 10000	150	no change	no change	no change	no change	no change				
266. B49	Pole Materials	201	no change	no change	no change	no change	no change				
267. B49	Pole Labor	216	no change	no change	no change	no change	no change				
268. B50	Inner Duct Investment per foot	\$ 0.30	no change	no change	no change	no change	no change				
269.	Conduit Material Investment per foot	\$ 0.60	\$ 1.43	\$ 3.07	\$ 3.15	\$ 2.74	\$ 3.20	\$ 5.30	\$ 2.71	\$ 2.52	\$ 1.88
270.	Spare Tubes per section	1	0	0	0	0	0	0	0	0	0

HM 5.0A		HM 5.0A									
		Default Scenario Value	Alabama	Florida	Georgia	Kentucky	Louisiana	Mississippi	N. Carolina	S. Carolina	Tennessee
Feeder Fiber placement											
271. B51	Fiber Aerial Fraction - 0	0.350	0.196	0.081	0.176	0.346	0.125	0.345	0.181	0.064	0.246
272. B51	Fiber Aerial Fraction - 5	0.350	0.196	0.081	0.176	0.346	0.125	0.345	0.181	0.064	0.246
273. B51	Fiber Aerial Fraction - 100	0.350	0.196	0.081	0.176	0.346	0.125	0.345	0.181	0.064	0.246
274. B51	Fiber Aerial Fraction - 200	0.300	0.196	0.081	0.176	0.346	0.125	0.345	0.181	0.064	0.246
275. B51	Fiber Aerial Fraction - 650	0.300	0.196	0.081	0.176	0.346	0.125	0.345	0.181	0.064	0.246
276. B51	Fiber Aerial Fraction - 850	0.200	0.196	0.081	0.176	0.346	0.125	0.345	0.181	0.064	0.246
277. B51	Fiber Aerial Fraction - 2550	0.150	0.196	0.081	0.176	0.346	0.125	0.345	0.181	0.064	0.246
278. B51	Fiber Aerial Fraction - 5000	0.100	0.196	0.081	0.176	0.346	0.125	0.345	0.181	0.064	0.246
279. B51	Fiber Aerial Fraction - 10000	0.050	0.196	0.081	0.176	0.346	0.125	0.345	0.181	0.064	0.246
280. B51	Fiber Buried Fraction - 0	0.600	0.400	0.200	0.180	0.188	0.319	0.384	0.285	0.355	0.288
281. B51	Fiber Buried Fraction - 5	0.600	0.400	0.200	0.180	0.188	0.319	0.384	0.285	0.355	0.288
282. B51	Fiber Buried Fraction - 100	0.600	0.400	0.200	0.180	0.188	0.319	0.384	0.285	0.355	0.288
283. B51	Fiber Buried Fraction - 200	0.600	0.400	0.200	0.180	0.188	0.319	0.384	0.285	0.355	0.288
284. B51	Fiber Buried Fraction - 650	0.300	0.400	0.200	0.180	0.188	0.319	0.384	0.285	0.355	0.288
285. B51	Fiber Buried Fraction - 850	0.200	0.400	0.200	0.180	0.188	0.319	0.384	0.285	0.355	0.288
286. B51	Fiber Buried Fraction - 2550	0.100	0.400	0.200	0.180	0.188	0.319	0.384	0.285	0.355	0.288
287. B51	Fiber Buried Fraction - 5000	0.050	0.400	0.200	0.180	0.188	0.319	0.384	0.285	0.355	0.288
288. B51	Fiber Buried Fraction - 10000	0.050	0.400	0.200	0.180	0.188	0.319	0.384	0.285	0.355	0.288
289. B51	Buried fraction available for shift - 0	0.750	no change	no change	no change	no change					
290. B51	Buried fraction available for shift - 5	0.750	no change	no change	no change	no change					
291. B51	Buried fraction available for shift - 100	0.750	no change	no change	no change	no change					
292. B51	Buried fraction available for shift - 200	0.750	no change	no change	no change	no change					
293. B51	Buried fraction available for shift - 650	0.750	no change	no change	no change	no change					
294. B51	Buried fraction available for shift - 850	0.750	no change	no change	no change	no change					
295. B51	Buried fraction available for shift - 2550	0.750	no change	no change	no change	no change					
296. B51	Buried fraction available for shift - 5000	0.750	no change	no change	no change	no change					
297. B51	Buried fraction available for shift - 10000	0.750	no change	no change	no change	no change					
298. B52	Fiber Pullbox Spacing, feet - 0	2,000	no change	no change	no change	no change					
299. B52	Fiber Pullbox Spacing, feet - 5	2,000	no change	no change	no change	no change					
300. B52	Fiber Pullbox Spacing, feet - 100	2,000	no change	no change	no change	no change					
301. B52	Fiber Pullbox Spacing, feet - 200	2,000	no change	no change	no change	no change					
302. B52	Fiber Pullbox Spacing, feet - 650	2,000	no change	no change	no change	no change					
303. B52	Fiber Pullbox Spacing, feet - 850	2,000	no change	no change	no change	no change					
304. B52	Fiber Pullbox Spacing, feet - 2550	2,000	no change	no change	no change	no change					
305. B52	Fiber Pullbox Spacing, feet - 5000	2,000	no change	no change	no change	no change					
306. B52	Fiber Pullbox Spacing, feet - 10000	2,000	no change	no change	no change	no change	no change	no change	no change	no change	no change
Feeder placement											
307.	Buried Copper Cable Sheath Multiplier	1.040	1.036	1.025	1.034	1.044	1.025	1.035	1.032	1.020	1.042
308. B53	Buried Fiber Sheath Addition per foot	\$ 0.20	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0